INNOVASIS
INNOVATIVE ENERGY SYSTEMS



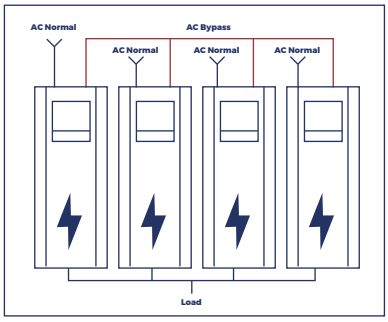


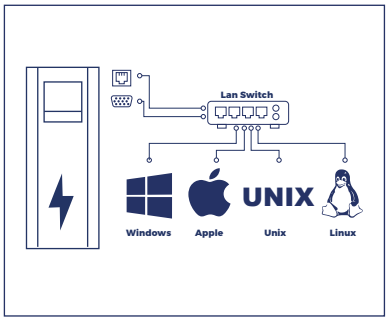
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PHASE

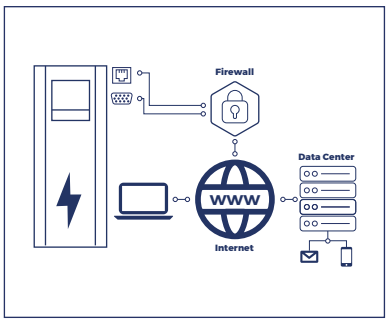
MULTILINE - ECO SERIES

Three-Phase UPS from 10 - 15 kVA

- Three LEVEL UPS — 3 LEVEL UPS
- VFI TYPE — UPS ONLINE
- TOWER
- 96% — HIGH EFFICIENCY
- LI - ION Battery — LI - ION READY







THREE PHASE OUTPUT UPS FOR INDUSTRIAL APPLICATIONS

Three level Technology, Compact and Robust, Monoline is the perfect UPS to protect and supply loads in the industrial fields and critical applications.

- Three Level Technology
- On Line-Double Conversion Technology (Class VFI-SS-111)
- IGBT PWM Rectifer & Inverter Technology
- High Efficiency up to 95%
- Higher efficiency with eco mode up to 98%
- High Input Power Factor (≥0.95)
- Increase battery life time up to 35% with smart charger
- Temperature compensation battery charging
- Higher fan file time with Intelligent fan speed control
- Operate as frequency converter (50 Hz / 60 Hz)
- Short Circuit, Overload, Lightning and Surge Protection
- Perfect Generator Compability
- Easy Service with Manual bypass
- Variable input low voltage depending on loading percentage (up to -36%)
- Paralellable up to 8 units

SOFTWARE & CONNECTIVITY SOLUTIONS

- Local communication with RS232 and RS485
- 2pcs configurable input contact
- Relay board with alarms
- GenSet contact
- EPO contact
- USB
- Remote Monitoring Panel
- Battery Temperature Sensor for Temperature compensated charging
- JBUS, PROFIBUS Local connection
- SNMP IT Manager monitoring
- Environment sensors for Data Centers (Humidity, Temperature, Smoke, etc.)
- GSM, Telnet, GPRS communication
- PC & Server shutdown
- Web page remote monitoring
- Building management system
- E-mail alarm reporting
- Remote monitoring 24/7 technical Service

MULTILINE-ECO SERIES

MODEL	MLE 3310U1 MLE 3310U2 MLE 3310U3	MLE 3315U1 MLE 3315U2 MLE 3315U3
Nominal power (kVA)	10	15
General Specs		
Technology	Three Level On-Line double conversation VFI-111	
Waveform	Sinusoidal	
Architecture	Stand Alone or Distributed Parallel up to 8 units	
Input characteristics		
Input Voltage	380, 400, 415 V 3Ph+N+PE	
Input frequency	45-65 Hz	
Voltage Tolerance (%100 load)	(-20)% (+20)%	
Voltage Tolerance (%40 load)	(-36)% (+20)%	
Output characteristics		
Output Voltage	380, 400, 415 V 3Ph+N+PE	
Output Voltage Tolerance	±1%	
Overall Efficiency**(AC-AC)	Up to 96% (Half load)	
Ecomode Efficiency	Up to 98% (Optional)	
Nominal Output Frequency	50/ 60Hz +0,01 free run (Adjustable from LCD Panel)	
Crest Factor	3:1	
Output Power Factor	1 (U1 model) / 0,9 (U2 model) / 0,8 (U3 model)	
THD of Output Voltage	≤2% (Linear load) & ≤5% (Non-linear load)	
Batteries		
Battery Type	VRLA-AGM / GEL / NiCd / Li-ion	
Battery Test	Automatic or Manual	
Battery Recharge Time	<6h-8h	
Bypass Characteristics		
Bypass	Built in Automatic and Maintenance Bypass	
Voltage Tolerance	±10%	
Transfer Time	0 ms	
Overload Capability	150% for 1 minutes	
Communication and management		
LCD Display	Graphical lcd screen, Led bar status	
Communication Ports (Optional)	RS485, Genset, SNMP, GSM Modem, Relay Contacts, Input Contacts, Modbus and USB	
Battery Temperature Sensor Contact	Available	
Emergency Power Off (Epo)	Available	
Accessories (Optional)	Galvanic Isolation Transformer, Remote Monitoring Panel	
Charger Capacity		
U1 Model (max)	13A	
U2/U3 Model (max)	1/4A	4A
U2/U3 model (with charge card option - max)	4A / 13A	13A
Battery Quanitity		
with Internal Battery	20/32* pcs 12V 7/9Ah	32 pcs 12V 7/9Ah
External Cabinet with 4A Charger Option	A2: 30 - 40 pcs (Default 30 pcs) A3: 40 - 46 pcs (Default 40 pcs)	
External Cabinet with 13A Charger Option	30-46 pcs (Default 30 pcs - Adjustable from LCD Panel)	
Physical characteristics		
Dimensions H x W x D (mm)	812 x 302 x 715	
Net Weight (kg)	41	48
Ambient conditions		
Operating Temperature	0°C - 40°C	
StorageTempature	-15°C/+ 55°C	
Proposed Temp. To Extend Battery Life	20- 25°C	
Relative Humidity (%)	< 95% not condensing	
Altittude	< 1500m	
Noise (at 1 meter)	<55 dBA	
Protection Class	IP 20 (Higher IP Ratings are optional)	
Compliance		
Referance Product Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)	

reserves the right to change specifications and designs without notice.

* with charge card option
** Depends on Input/Output voltage conditions and power

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